Table 1- New DSS L4 Requirements CCR 97-0818 Rev A

L4 id	req_key	rel	req_type	req_status	ver_method	ver_status	text
S-DSS-	<u>new</u>	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>	The SDSRV CI shall assign a unique Granule ID to each granule of data stored by the
<u>00144</u>							STMGT CI.
S-DSS-	<u>new</u>	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>	The SDSRV CI shall accept and process Update Metadata Requests that request the update
<u>00163</u>							of the QA Attributes for specified data granules.
S-DSS-	<u>new</u>	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>	The SDSRV CI shall direct the retrieval and distribution of the data files, associated with
<u>00940</u>							each granule requested in a valid Data Request using the Logical File Location for each file.
S-DSS-	<u>new</u>	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>	The SDSRV CI shall log all updates to the Metadata Database in a Database Transaction
<u>01155</u>							<u>Log.</u>
S-DSS-	new	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>	The SDSRV CI shall provide operations staff the capability to recover the Metadata Database
<u>01365</u>							using the database backup and the Database Transaction Log.
S-DSS-	<u>new</u>	<u>B1</u>	<u>functional</u>	<u>approved</u>	<u>demo</u>	<u>unverified</u>	The SDSRV CI shall provide the capability to compare directories, received from the
<u>01375</u>							STMGT CI with Granule Inventory Metadata.
S-DSS-	<u>new</u>	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>	The SDSRV CI shall restrict the capability to update Granule Inventory Metadata that is not
<u>01385</u>							<u>user-searchable to the operations staff only.</u>
S-DSS-	<u>new</u>	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>	The SDSRV CI shall store a granule's Granule Inventory Metadata into the Metadata
<u>04021</u>							Database when the data file(s) for the granule is successfully stored by the STMGT CI.
S-DSS-	<u>new</u>	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>	The SDSRV CI shall assign a unique Logical File Location to each data file specified by a
<u>04515</u>							<u>valid Data Insert Request.</u>
S-DSS-	<u>new</u>	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>	The SDSRV CI shall direct the STMGT CI to archive data files in locations specified by
<u>04517</u>							each file's assigned Logical File Location.
S-DSS-	<u>new</u>	<u>B1</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>	The SDSRV CI shall update the Granule Inventory Metadata to indicate that a lost data
<u>05820</u>							granule is available after it has been restored.
S-DSS-	<u>new</u>	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>demo</u>	<u>unverified</u>	The SDSRV CI shall provide the operations staff the capability to display and list all
<u>05825</u>							Granule Inventory Metadata.
S-DSS-	<u>new</u>	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>	The STMGT CI shall store each data file in the location specified by the Logical File
<u>20365</u>							Location provided by the SDSRV CI.

Table 2- Modify DSS L4 Requirements CCR 97-0818 Rev A

L4 id	req_key	rel	req_type	req_status	ver_method	ver_status	text
S-DSS-	11022	Α	functional	approved	test	unverified	The SDSRV CI shall maintain an Inventory containing an index of available data granules.
00145							The SDSRV CI shall maintain Granule Inventory metadata for each stored data granule as
							follows
							a. the Granule ID;
							b. the Logical File Location for each of the granule's constituent file(s)
							c. the Checksum for each of the granule's constituent file(s)
							d. the date and time of storage
							e. all user-searchable metadata for that granule
S-DSS-	3236	Α	functional	approved	demo	<u>unverified</u>	The SDSRV CI shall accept and process Update Metadata Requests to update Metadata that
00160							has been previously stored in the Inventory. The SDSRV CI shall accept and process Update
							Metadata Requests to update Granule Inventory Metadata that is user-searchable.
S-DSS-	3237	Α	functional	approved	demo	unverified	The SDSRV CI shall update the Inventory with the updated Metadata that was received.
00165							The SDSRV CI shall update Granule Inventory Metadata as specified by valid Update
a Daa	10401	DO	C .: 1	1	1		Metadata Requests.
S-DSS- 00695	12481	B0 B1	functional	approved	demo	unverified	The SDSRV CI shall provide the capability to receive directories from the STMGT of all
S-DSS-	12911	B0	functional	ammariad	demo	unverified	data stored by the STMGT. The SDSRV CI shall store <u>Granule Inventory Metadata-metadata</u> , specified by valid Data
03305	12911	ВО	Tunctional	approved	demo	unvermea	Insert Request, into the Metadata Database.
S-DSS-	3537	Α	functional	approved	demo	unverified	The SDSRV CI shall include granule-specific information as defined in the SDPS Core
04360	3331	A	Tunctional	approved	demo	unvermed	Metadata Baseline (194-00269TPW). The SDSRV CI shall maintain Granule Inventory
04300							metadata for each stored data granule in accordance with the Release B data model.
S-DSS-	9156	Α	functional	approved	demo	unverified	The SDSRV CI shall provide the capability to validate updated metadata before insertion
04530	7150	11	runetionar	иррголец	demo	directified	into the Inventory. The SDSRV CI shall validate updated Granule Inventory Metadata,
							specified by Update Metadata Requests, and reject the request if the request fails validation.
S-DSS-	3539	Α	functional	approved	demo	unverified	The SDSRV CI shall provide services to add to the existing Inventory The SDSRV CI
04570							shall provide the operations staff the capability to add Granule Inventory Metadata for any
							specified data granules in a special privileged mode.
S-DSS-	3540	A	functional	approved	demo	unverified	The SDSRV CI shall provide services to delete from the existing Inventory. The SDSRV
04580		<u>B1</u>					CI shall provide the operations staff the capability to delete all Granule Inventory Metadata
							for any specified data granules, in a special privileged mode.
S-DSS-	3541	A	functional	approved	demo	unverified	The SDSRV CI shall provide services to modify the existing Inventory_The SDSRV CI

Table 2- Modify DSS L4 Requirements CCR 97-0818 Rev A

L4 id	req_key	rel	req_type	req_status	ver_method	ver_status	text
04590							shall provide the operations staff the capability to modify all Granule Inventory Metadata for
							any specified data granules in a special privileged mode.
S-DSS-	11038	A	functional	approved	demo	unverified	The SDSRV CI shall update the Metadata for a data item whenever an unexpected loss
04600							occurs, or for restoration of data. The SDSRV CI shall update the Granule Inventory
							Metadata to indicate that a data granule cannot be retrieved in the event of file corruption or
							unexpected file loss.
S-DSS-	12487	B0	functional	approved	demo	unverified	The STMGT CI shall provide to the SDSRV directories of all stored data.
20361		<u>B1</u>					
S-DSS-	3705	Α	functional	approved	demo	unverified	The STMGT CI shall provide the capability to retrieve each individual data granule that is
20620							stored. The STMGT CI shall be capable of retrieving any stored data file specified by the
							file's unique Logical File Location.
S-DSS-	3711	A	functional	approved	demo	unverified	For each data item archived, the STMGT CI shall record the event in the Inventory Update
20670							Log. The STMGT CI shall log all updates to the Archive Database, in a Database
							<u>Transaction Log.</u>
S-DSS-	9159	A	functional	approved	demo	unverified	The STMGT CI shall maintain a File Directory of all data files which have been archived.
21390							The STMGT CI shall provide a mechanism for maintaining the one-to-one correspondence
							between the Logical File Location for each archived file and the physical location of the file.

Table 3 - Delete DSS L4 Requirements CCR 97-0818 Rev A

L4 id	req_key	rel	req_type	req_status	ver_method	ver_status	text
S-DSS- 00150	-3235	A	functional	approved	demo	<u>unverified</u>	The SDSRV CI shall accept and process Insert Metadata Requests to insert Metadata into the Inventory.
S-DSS- 03390	-3462	A	functional	approved	demo	<u>-unverified</u>	The SDSRV CI shall update the Inventory after the Data it received for insertion into its data holdings have passed the validity cheeks applicable to the respective data types.
S-DSS- 03410	-8813	B0	functional	approved	test	unverified	The SDSRV CI shall verify compliance of scientist provided Metadata with EOSDIS defined standards for Metadata content and structure (not scientific content).
S-DSS- 03540	-9741	A	functional	approved	demo	<u>unverified</u>	The SDSRV CI shall provide storage for inventory characteristic data.
S-DSS- 03740	-9750	A	functional	approved	demo	<u>unverified</u>	The SDSRV CI shall provide storage for validated Inventory data.
S-DSS- 03746	-9230	A	functional	approved	test	unverified	The SDSRV CI shall provide storage for the checksum value associated with each file of each data granule stored in the STMGT CI.
S-DSS- 04380	-10204	A	interface	approved	demo	<u>unverified</u>	The STMGT CI shall provide the SDSRV CI the granule id, date and time of storage, data check status and data format type, for each data granule stored as a result of a Data Insert Request.
S-DSS- 04510	-9152	A	functional	approved	demo	<u>unverified</u>	The STMGT CI shall support the capability to logically group a set of granule ids such that the set can be referenced by a single identifier.
S-DSS- 04520	-9154	A	functional	approved	demo	<u>unverified</u>	The SDSRV CI shall provide the capability to validate metadata before insertion into the Inventory.
S-DSS- 04540	-9158	A	functional	approved	demo	unverified	The SDSRV CI shall reject metadata which fails one or more validations constraints.
S-DSS- 04597	-10694	A	functional	approved	test	unverified	The SDSRV CI shall provide a Motif GUI which permits DAAC operators to view pending QA updates in the QA metadata holding table, select entries for approval, and approve the selected entries for insertion into the product inventory.
S-DSS- 04598	-10695	A	functional	approved	test	unverified	The SDSRV CI shall transfer QA updates from the QA metadata holding table into the inventory table after they have been approved for insertion.
S-DSS- 04610	-3543	A	functional	approved	demo	<u>unverified</u>	The SDSRV CI shall update the Metadata whenever a data item is updated.
S-DSS- 04640	-3546	A	functional	approved	demo	<u>-unverified</u>	The SDSRV CI shall provide services to retrieve Metadata from the Inventory.

Table 3 - Delete DSS L4 Requirements CCR 97-0818 Rev A

L4 id	req_key	rel	req_type	req_status	ver method	ver status	text
S-DSS- 04645	-11053	A	functional	approved	demo	unverified	The SDSRV CI shall support the Release A Core Meta Data Model for science data.
S-DSS- 20090	-11224	A	functional	approved	demo	unverified	The STMGT CI shall maintain an Inventory Update Log.
S-DSS- 20600	-3703	A	functional	approved	demo	<u>-unverified</u>	The STMGT CI shall provide the capability to uniquely identify each data granule that is archived.
S-DSS- 20690	-3712	A	functional	approved	demo	<u>-unverified</u>	The STMGT CI shall provide the capability to display/view/print the Inventory Update Log.
S-DSS- 20700	-11225	A	functional	approved	demo	unverified	The STMGT CI shall provide the capability to select/extract Inventory Update Log records.
S-DSS- 21400	-11226	A	functional	approved	demo	unverified	The STMGT CI shall provide authorized operations staff a mechanism to create the File Directory.
S-DSS- 21410	-11227	A	functional	approved	demo	unverified	The STMGT CI shall provide authorized operations staff a mechanism to append records to the File Directory.
S-DSS- 21430	-8917	B1	functional	approved	test	unverified	The STMGT CI shall provide operations staff a mechanism to delete records from the File Directory.
S-DSS- 21440	-11229	A	functional	approved	demo	unverified	The STMGT CI shall provide authorized operations staff a mechanism to update records in the File Directory.
S-DSS- 21470	-11230	A	functional	approved	demo	unverified	The STMGT CI shall provide authorized operations staff the capability to view/display/print contents of the File Directory.
S-DSS- 21480	-3801	A	functional	approved	demo	<u>unverified</u>	The STMGT CI shall maintain a unique data set id for each data item in its File Directory.
S-DSS- 21490	-3802	A	functional	approved	demo	<u>unverified</u>	The STMGT CI shall be capable of tracking the physical location of each data granule via use of the File Directory.

Table 4 - Add DSS L4 Links to RBR#B CCR 97-0818 Rev A Data reflects RTM baseline of 4/18/97

RBR_id	L4 id
<u>DADS0010#B</u>	<u>S-DSS-00163</u>
<u>DADS0020#B</u>	<u>S-DSS-00163</u>
<u>DADS0350#B</u>	<u>S-DSS-00144</u>
DADS0350#B	<u>S-DSS-00145</u>
<u>DADS0350#B</u>	<u>S-DSS-04021</u>
<u>DADS0350#B</u>	<u>S-DSS-04515</u>
DADS0350#B	S-DSS-20622
<u>DADS0370#B</u>	<u>S-DSS-04021</u>
<u>DADS1100#B</u>	<u>C-MSS-04010</u>
DADS1100#B	S-DSS-00901
<u>DADS1100#B</u>	<u>S-DSS-01155</u>
<u>DADS1100#B</u>	<u>S-DSS-01365</u>
DADS1160#B	<u>S-DSS-05820</u>
<u>DADS1540#B</u>	<u>S-DSS-00901</u>
<u>DADS1540#B</u>	<u>S-DSS-01155</u>
DADS1540#B	<u>S-DSS-01365</u>
<u>DADS1550#B</u>	<u>S-DSS-01385</u>
<u>DADS1550#B</u>	<u>S-DSS-04590</u>
<u>DADS1550#B</u>	<u>S-DSS-05825</u>
<u>DADS1780#B</u>	<u>S-DSS-00940</u>
<u>DADS1780#B</u>	<u>S-DSS-04020</u>
<u>DADS1790#B</u>	<u>S-DSS-01375</u>
<u>DADS1795#B</u>	<u>S-DSS-00144</u>
<u>DADS1795#B</u>	<u>S-DSS-00145</u>
<u>DADS1795#B</u>	<u>S-DSS-04021</u>
DADS1800#B	<u>S-DSS-00145</u>
DADS1800#B	<u>S-DSS-04021</u>
<u>DADS1800#B</u>	<u>S-DSS-04515</u>
<u>DADS1800#B</u>	<u>S-DSS-04517</u>

Table 4 - Add DSS L4 Links to RBR#B CCR 97-0818 Rev A Data reflects RTM baseline of 4/18/97

RBR_id	L4 id
<u>DADS1800#B</u>	<u>S-DSS-20365</u>
DADS1800#B	<u>S-DSS-21390</u>
DADS1805#B	<u>S-DSS-00144</u>
DADS1805#B	<u>S-DSS-00145</u>
DADS1805#B	<u>S-DSS-04021</u>
<u>DADS1805#B</u>	<u>S-DSS-04515</u>
<u>DADS1805#B</u>	<u>S-DSS-04517</u>
DADS1805#B	<u>S-DSS-20365</u>
<u>DADS1805#B</u>	<u>S-DSS-21390</u>
<u>DADS1806#B</u>	<u>S-DSS-00145</u>
DADS1806#B	S-DSS-00940
DADS1806#B	<u>S-DSS-04515</u>
<u>DADS1806#B</u>	<u>S-DSS-04517</u>
DADS1806#B	S-DSS-20365
<u>DADS2270#B</u>	<u>C-MSS-04010</u>
<u>DADS2270#B</u>	<u>S-DSS-00901</u>
DADS2270#B	<u>S-DSS-01365</u>
<u>DADS2270#B</u>	<u>S-DSS-20670</u>
EOSD1740#B	<u>S-DSS-04020</u>
EOSD1740#B	<u>S-DSS-04026</u>
<u>IMS-0320#B</u>	<u>S-DSS-00145</u>
<u>IMS-0430#B</u>	<u>S-DSS-00145</u>
<u>IMS-0450#B</u>	<u>S-DSS-03295</u>
<u>IMS-0455#B</u>	<u>S-DSS-05820</u>
PGS-1130#B	<u>S-DSS-00163</u>
SCF-0240#B	<u>S-DSS-00163</u>
<u>SCF-0250#B</u>	<u>S-DSS-00163</u>
<u>SDPS0032#B</u>	<u>S-DSS-04020</u>
<u>SDPS0032#B</u>	<u>S-DSS-04026</u>
<u>SDPS0050#B</u>	<u>S-DSS-00145</u>
SDPS0080#B	<u>S-DSS-00145</u>

Table 4 - Add DSS L4 Links to RBR#B CCR 97-0818 Rev A Data reflects RTM baseline of 4/18/97

RBR_id	L4 id
SDPS0090#B	S-DSS-00163

Table 5 - Delete DSS L4 Links to RBR#B CCR 97-0818 Rev A Data reflects RTM baseline of 4/18/97

L4 id
S-DSS-03305
S-INS-00841
S-INS-00843
S-INS-00845
S-INS-00847
S-INS-00849
S-INS-00852
S-INS-00854
S-INS-00856
S-INS-61150
S-INS-61160
S-INS-61170
S-DSS-20620
S-DSS-00145
S-DSS-04360
S-DSS-00160
S-DSS-00160
S-DSS-00165
S-DSS-20670
S-DSS-20670

Table 6- Modify RBR#B Requirements CCR 97-0818 Rev A

RBR_id	req_ key	Rel	Req_Cat egory	segment	req_type	s_verif_ method	s_verif_s tat	a_verif_ method	a_verif_s tat	text	interpretation text	clarif icati on
DADS037 0#B	348 7		mission essential	SDPS	functional	test	un- verified	test	un- verified	Each DADS shall provide the IMS with metadata on newly stored data granules.	B: Release B Metadata described in the Data Type Matrix Applies to the update of the Metadata Database managed by the SDSRV CI.	
DADS116 0#B	354 1		mission essential	SDPS	functional	test	un- verified	test	un- verified	Each DADS shall provide the IMS with metadata reflecting changes as a result of: a. Purges b. Transfers to other site(s) c. Unexpected loss d. Updates	B: Everything else purges, transfers to other site, update	
DADS155 0#B	356 4		mission essential	SDPS	functional	demo	un- verified	demo	un- verified	Operations/systems personnel shall be able to access, list, or modify the contents of the file directory in a special privileged mode.	B: Delete from File Directory	
DADS180 5#B	357 8		mission essential	SDPS	functional	demo	un- verified	demo	un- verified	The DADS shall provide an inventory system capable, at a minimum, of the following: a. Accepting the number of new inventory entries, one per granule, for the number of granules per day as specified in Appendix C b. Uniquely identifying each data granule c. Tracking the physical location of each data granule.	B: TRMM, AM- 1, Landsat-7	